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Notice of Allowability	Application No.	Applicant(s)
	10/004,172	FARNWORTH ET AL.
	Examiner	Art Unit
	A. Dexter Tugbang	3729
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to RCE filed on 6/16/04.		
2. The allowed claim(s) is/are <u>4-12,14,16-18 and 20-22</u> .		
3. The drawings filed on 09 October 2001 are accepted by the Examiner.		
 4.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Summary (Paper No./Mail Date B), 7. ⊠ Examiner's Amendm	<u> </u>

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Brent Kenady on September 2, 2004.

The application has been amended as follows:

In Claim 7, the phrase of "their associated" (line 2) has been replaced with --the individual--.

In Claim 11, the punctuation of --, -- has been inserted after "reflowing" (line 4).

In Claim 12, the term of --solder-- has been inserted before "balls" (line 5), the term of --solder-- has been inserted before "ball portions" (line 6), the term of --solder-- has been inserted before "balls to bonding" (line 6), and --solder-- has been inserted before "balls with" (line 7).

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance: the prior art does not teach all of the limitations of the claimed invention including dipping the substrate into a volume of solder balls (as required per Claim 12), or dipping the frame into a volume of the solder balls (as required per Claim 18).

Accordingly, Claims 4-12, 14, 16-18 and 20-22 are allowed.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Dexter Tugbang whose telephone number is 703-308-7599. The examiner can normally be reached on Monday - Friday 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. Dexter Tugbang

Primary Examine

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